

SMD Power Inductor

CDRH50D28B/T150



 Recommended Type

Description

- Ferrite drum core construction
- Magnetically shielded
- LxWxH: 5.6 x 5.3 x 3.0 mm Max.
- Product weight: 0.24g (Ref.)
- Qualified AEC-Q200
- RoHS compliance
- Absolute Maximum Voltage (across inductor): 250V
- Vibration resistance: 10Hz~20000Hz/30G (MIL standard)



Environmental Data

- Operating Temperature: -55°C to +150°C (including self-heating)

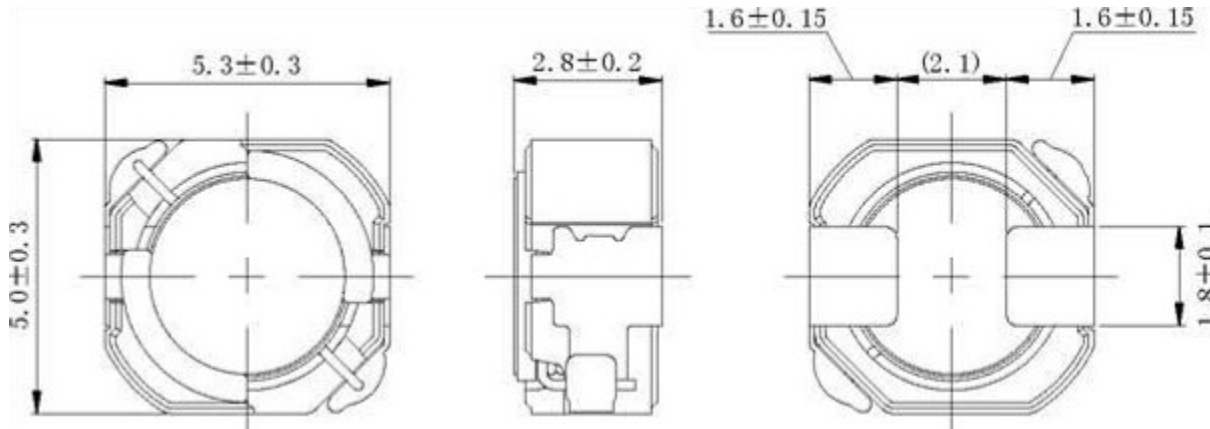
Packaging

- Carrier tape and reel packaging

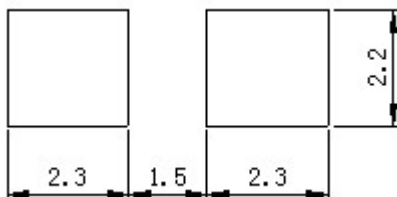
Applications

- ADAS DC/DC converter
- Other high temperature / high reliability applications for automotive

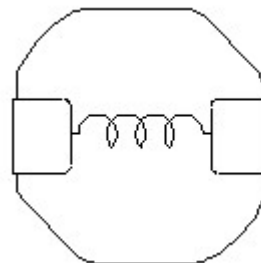
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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Electrical Characteristics

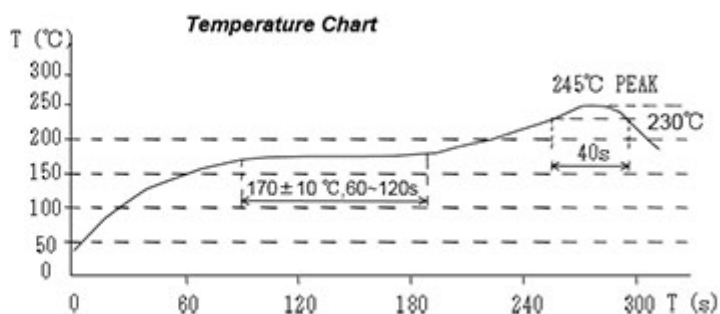
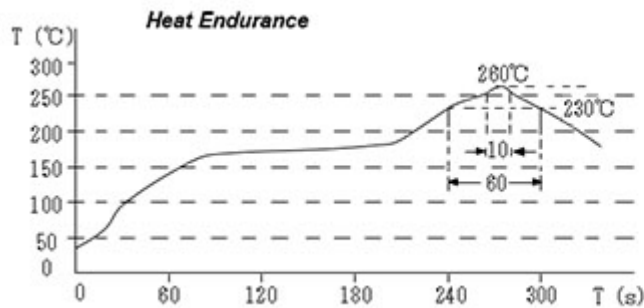
| Part Number | Inductance [Within] (μ H) ※1 | D.C.R. at 20°C Max.(Typ.) (m Ω) | Saturation Current (A) Max.(Typ.) ※2 | Temperature Rise Current (A) Max.(Typ.) ※3 |
|------------------------|-----------------------------------|---|--------------------------------------|--|
| CDRH50D28BT150NP-1R0NC | 1.00 \pm 30% | 23.40 (18.00) | 5.50 (6.50) | 3.20 (3.60) |
| CDRH50D28BT150NP-1R5NC | 1.50 \pm 30% | 26.00 (20.00) | 5.50 (5.20) | 3.00 (3.40) |
| CDRH50D28BT150NP-2R2NC | 2.20 \pm 30% | 33.80 (26.00) | 3.50 (4.20) | 2.80 (3.20) |
| CDRH50D28BT150NP-3R3NC | 3.30 \pm 30% | 41.60 (32.00) | 2.90 (3.40) | 2.40 (2.70) |
| CDRH50D28BT150NP-4R7NC | 4.70 \pm 30% | 67.60 (52.00) | 2.40 (2.90) | 2.20 (2.50) |
| CDRH50D28BT150NP-6R8NC | 6.80 \pm 30% | 97.50 (75.00) | 2.00 (2.40) | 1.70 (1.92) |
| CDRH50D28BT150NP-100MC | 10.00 \pm 20% | 114 (95.00) | 1.70 (2.00) | 1.55 (1.75) |
| CDRH50D28BT150NP-150MC | 15.00 \pm 20% | 156 (130) | 1.40 (1.70) | 1.22 (1.38) |
| CDRH50D28BT150NP-220MC | 22.00 \pm 20% | 180 (150) | 1.20 (1.40) | 1.00 (1.14) |
| CDRH50D28BT150NP-330MC | 33.00 \pm 20% | 336 (280) | 0.93 (1.10) | 0.88 (0.90) |
| CDRH50D28BT150NP-470MC | 47.00 \pm 20% | 516 (430) | 0.78 (0.92) | 0.68 (0.76) |
| CDRH50D28BT150NP-680MC | 68.00 \pm 20% | 756 (630) | 0.67 (0.79) | 0.56 (0.65) |
| CDRH50D28BT150NP-101MC | 100 \pm 20% | 930 (780) | 0.55 (0.65) | 0.40 (0.46) |

※1 Measuring frequency : Inductance at 100kHz

※2 Saturation current: This indicates the value of D.C. current when the inductance becomes 30% lower than its nominal value.

※3 Temperature rise current: The actual current when temperature of coil becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

Solder Reflow Condition



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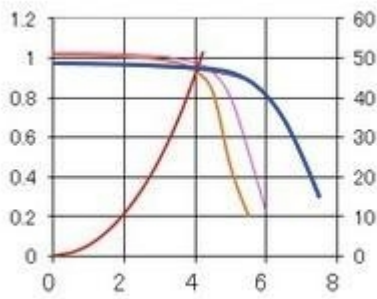
Recommended Type

Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — L (150°C) — ΔT

1. CDRH50D28BT150NP-1R0NC

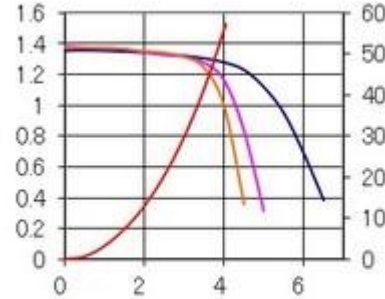
L (μH) ΔT(°C)



DC(A)

2. CDRH50D28BT150NP-1R5NC

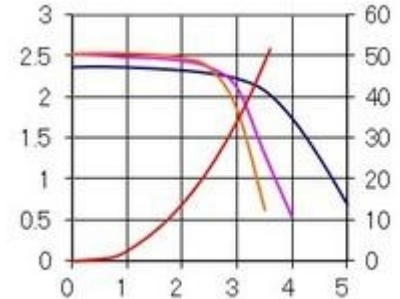
L (μH) ΔT(°C)



DC(A)

3. CDRH50D28BT150NP-2R2NC

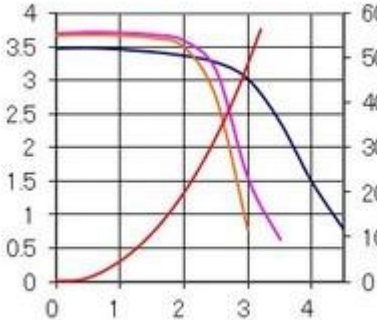
L (μH) ΔT(°C)



DC(A)

4. CDRH50D28BT150NP-3R3NC

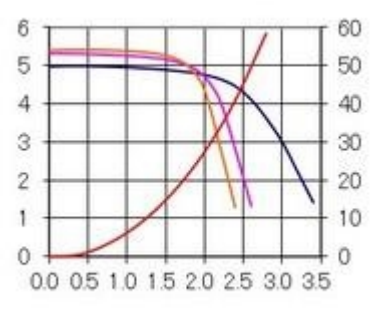
L (μH) ΔT(°C)



DC(A)

5. CDRH50D28BT150NP-4R7NC

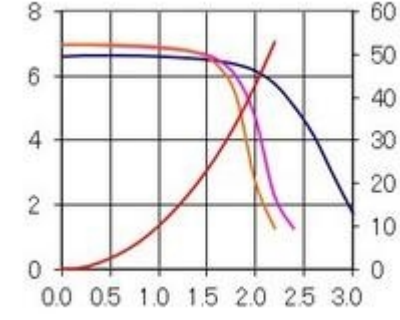
L (μH) ΔT(°C)



DC(A)

6. CDRH50D28BT150NP-6R8NC

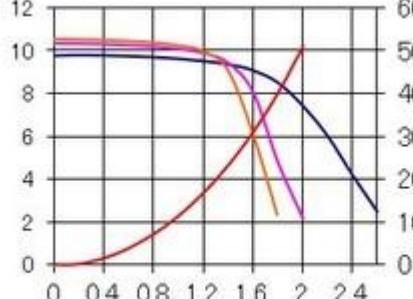
L (μH) ΔT(°C)



DC(A)

7. CDRH50D28BT150NP-100MC

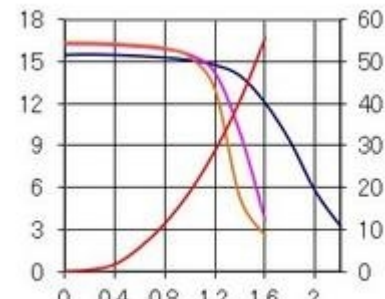
L (μH) ΔT(°C)



DC(A)

8. CDRH50D28BT150NP-150MC

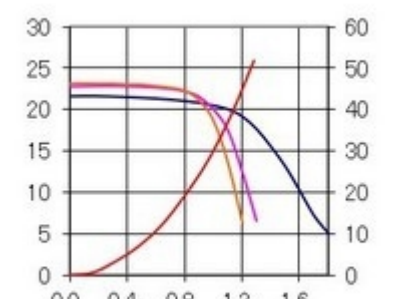
L (μH) ΔT(°C)



DC(A)

9. CDRH50D28BT150NP-220MC

L (μH) ΔT(°C)



DC(A)

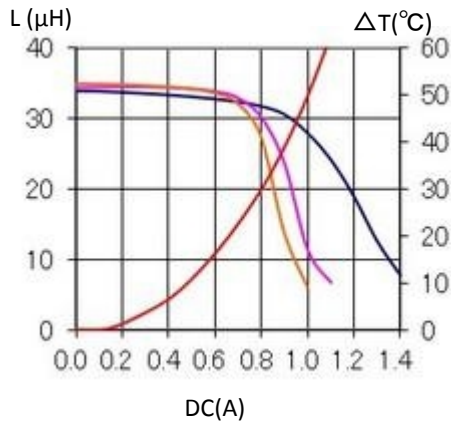
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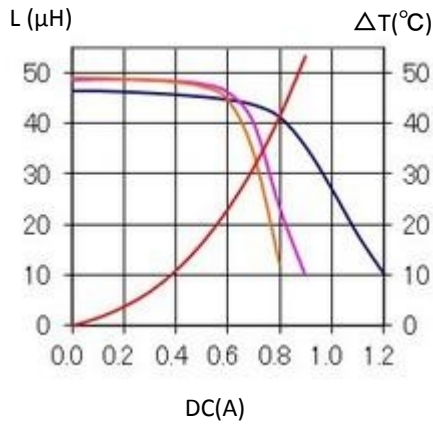
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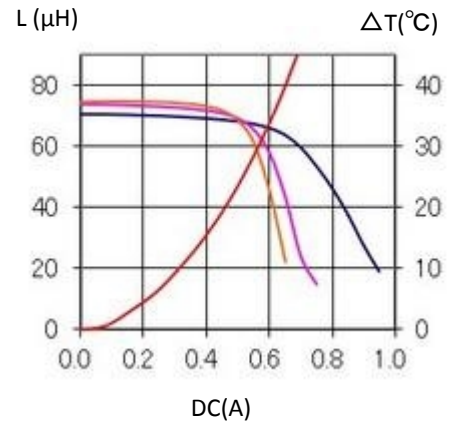
10. CDRH50D28BT150NP-330MC



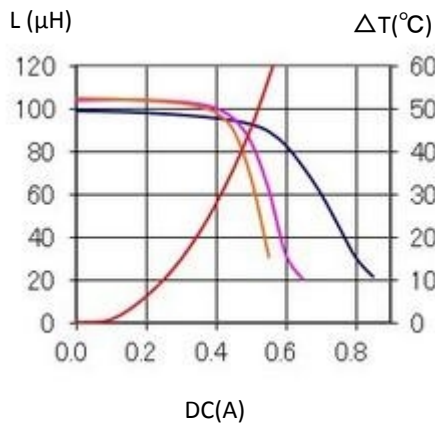
11. CDRH50D28BT150NP-470MC



12. CDRH50D28BT150NP-680MC



13. CDRH50D28BT150NP-101MC



For sales office information, please [click here](#) to visit our website.

单击下面可查看定价，库存，交付和生命周期等信息

[>>Sumida Corporation\(胜美达\)](#)